

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q85926

Kokichi SUGIHARA, et al.

Appln. No.: National Stage Entry of PCT/JP 03/09821

Confirmation No.: not yet assigned

Group Art Unit: not yet assigned

Filed: February 01, 2005

Examiner: not yet assigned

For: METHOD OF CALCULATING A WIRE PACKING, APPARATUS THEREFOR, AND
PROGRAM THEREOF

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, along with a copy of the corresponding Communication from a Foreign Patent Office, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action

INFORMATION DISCLOSURE STATEMENT
National Stage Entry of PCT/JP 03/09821

on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a Communication from a foreign patent office in a counterpart application citing such documents (International Search Report for PCT/JP 03/09821 dated July 27, 2004), together with an English-language version (if not already included) of that portion of the Communication indicating the degree of relevance found by the foreign patent office.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

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CUSTOMER NUMBER

Respectfully submitted,

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Darryl Mexic
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Date: February 1, 2005

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| Substitute for Form 1449 A & B/PTO <u>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</u> <i>(use as many sheets as necessary)</i> | | | | Complete if Known 0/522902 | |
| | | | | Application Number | National Stage Entry of PCT/JP 03/09821 |
| | | | | Confirmation Number | Not yet assigned |
| | | | | Filing Date | February 01, 2005 |
| | | | | First Named Inventor | Kokichi SUGIHARA |
| | | | | Art Unit | Not yet assigned |
| | | | | Examiner Name | Not yet assigned |
| Sheet 1 of 2 | | | | Attorney Docket Number | Q85926 |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|-----------------|-----------------------------------|-----------------------------|---|
| Examiner Initials* | Cite No. ¹ | Document Number | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
| | | Number | Kind Code ² (if known) | | |
| | | US | | | |
| | | US | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|-----------------------|---------------------------|---------------------|--------------------------------------|-----------------------------|---|--------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Translation ⁶ |
| | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | | | |
| | | EP | 0 718 597 | A | 6/26/1996 | SUMITOMO WIRING SYSTEMS | |
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| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|--|--------------------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation ⁶ |
| | | SUGIHARA K: "Estimation of the Sizes of Wire Bundles in Manufacturing" MATHEMATICAL METHODS IN MANUFACTURING AND LOGISTICS, 'Online! vol. 54, no. 2001, 16 December 2001 (2001-12-16) , page 14, XP002285233 MATHEMATISCHES FORSCHUNGSINSTITUT OBERWOLFACH Retrieved from the Internet: URL : www.mfo.de/programme/schedule/2001/51/Report_54_01.ps > 'retrieved on 2004-06-18! Page 14 | |
| | | HUANG ET AL: "Local Search Based on a Physical Model for Solving a Circle Packing Problem" MIC ' 2001 4 th METAHEURISTICS CONFERENCE, 16 July 2001 (2001-07-16) , pages 455-459, XP002285969 PORTO, PORTUGAL page 455 page 457 - page 458 | |
| | | DATABASE INSPEC 'Online! THE INSTITUTION OF ELECTRICAL ENGINEERS, STEVENAGE , GB; 1998, ARAI M ET AL: "Packing circles under variable spatial constraints: a vibration control approach" XP002287151 Database accession no. 6710347 abstract & INTELLIGENT AUTONOMOUS SYSTEMS. IAS-5, INTELLIGENT AUTONOMOUS SYSTEMS. IAS-5, SAPPORO, JAPAN, 1998, 1998, pages 727-734, 1998, Amsterdam, Netherlands, IOS Press, Netherlands ISBN: 90-5199-398-6 | |
| | | DEOK-SOO KIM ET AL: "Robust and fast algorithm for a circle set Voronoi diagram in a plane" 2001, BERLIN, GERMANY, SPRINGER-VERLAG, GERMANY, May 2001 (2001-05) , pages 718-727, XP002285235 ISBN: 3-540-42232-3 the whole document | |
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| | | International Search Report for PCT/JP 03/09821 dated July 27, 2004 | |

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|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to indicate here if English language Translation is attached.